



Control Number: 50595



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Public Utility Commission of Texas

Employee Training Report Required by 16 Texas Admin. Code § 25.97(d)

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PUBLIC UTILITY COMMISSION
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PROJECT NO. 50595

AFFECTED ENTITY: Comanche Electric Cooperative

General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
Telephone: (512) 936-7180

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

In accordance with the William Thomas Heath Power Line Safety Act, HB 4150, and PUCT Substantive Rule 25.97, Comanche Electric Cooperative is providing a summary description of training programs provided to employees related to overhead transmission and distribution lines. Among other things, this training includes hazard recognition, adherence to NESC guidelines for construction, operation and maintenance of transmission and distribution lines. Training also includes NESC Rule 232, clearance requirements over any of the 178 lakes listed in the Act. Included herein are summaries of the current training modules Comanche Electric Cooperative provides to employees.

TRAINING SUMMARIES**Summary of TEC Hotline School I-IV**

Line Construction I—Rubber Gloving from Bucket this course is designed for employees at the apprentice level who have performed some rubber gloving from an aerial device on energized conductors. these students should have safely performed limited live line work from an aerial device with full supervision. through this course, students gain extensive hands-on training and experience during training exercises with experienced craftsmen, who provide one-on-one training. after completing this course, students should be able to perform basic rubber-gloving techniques safely.

Line Construction II—this course is designed for employees in an advanced stage of apprenticeship training who have at least a year of experience safely performing rubber gloving from an aerial device with full supervision. students should also have experience performing live line work from an aerial device with full supervision and should be able to perform live line work safely. Through this course, students gain extensive hands-on training and experience during training exercises with experienced craftsmen, who provide one-on-one training on three-phase construction. After completing this course, the students should be able to perform rubber-gloving techniques safely and plan hot work in a safe and proper work order.

Line Construction III—this course is designed for experienced line technicians in all phases of overhead construction and work performance who deal with multiple hazards associated with overhead line work. students gain extensive hands-on training and experience during the training exercises.

Line Construction IV—this course is designed for experienced line technicians in all phases of overhead construction and work performance, work procedures, and dealing with SCADA, grounding and multi-task job performances. the students will get extensive hands-on training and experience during the training exercises.

Summary of TEC Troubleshooting School (four-day course)

This course provides instruction on basic electricity, identifying and correcting line service complaints, identifying errors associated with customer equipment and services, identifying and using all personal protective equipment and cover-up when working on energized equipment, and identifying and understanding all systematic switching procedures to isolate faulted energized equipment and services on overhead and underground systems.

Summary of TEC Safety Meeting HB4150 Training

The training will include an overview of HB 4150 with an explanation of requirements for the utilities operating in Texas. It will also include hazard recognition training as it applies to the requirements of compliance with the National Electric Safety Code (NESC). This will include clearance requirements for lands, roadways, and waterways. The employee training will define to whom, when and how the bill applies. As well as explanation of guidelines, requirements, and deadlines for filing reports. A portion of the course will include hazard recognition and an explanation of clearance guideline requirements preparing employees to proactively recognize and report hazards and clearance related issues on their utilities' system.

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

INTRODUCTION

In accordance with the William Thomas Heath Power Line Safety Act, HB 4150, and PUCT Substantive Rule 25.97, Comanche Electric Cooperative is providing a summary description of training programs provided to employees related to overhead transmission and distribution lines. Among other things, this training includes hazard recognition, adherence to NESC guidelines for construction, operation and maintenance of transmission and distribution lines. Training also includes NESC Rule 232, clearance requirements over any of the 178 lakes listed in the Act. Included herein are summaries of the current training modules Comanche Electric Cooperative provides to employees.

Summary of NESC Clearance Requirements (four-hour C•O•R•E course)

This course will educate all utility personnel whose positions require a working knowledge of the NESC rules, which can include engineers, line workers and staking technicians.

Course outline:

1. Defining sag requirements—Rule 230.2
2. Ground clearances—Table 232-1 and 232-2
3. Clearances to building and signs—Table 234-1
4. Clearances to pools and grain bins—Rule 234E and 234F
5. Joint use clearances—Rule 235, 238, and 239

Summary of Designing Transmission and Distribution Lines Crossing Lake (one-day C•O•R•E course)

This training reviews clearances as defined by Rule 232 of the NESC and compliance with the U.S. Army Corps of Engineers easement requirements. This training class will review the applicable sections of the NESC as it relates to designing long spans over lakes and the easement terms and specifications commonly found in easements with the Corps of Engineers. The training provides a demonstration of designing a lake crossing using software such as Pole Foreman and Sag 10.

Course Outline:

1. Requirements of the HB 4150
2. Lake Crossing Issues
3. NESC Requirements for Lake Crossings
 - a. Rule 232 Clearances
 - b. Rule 241 Required Grade of Construction of crossing lakes
 - c. Rule 250D Application of Extreme Ice
 - d. Rule 250C Extreme Wind
 - e. Rule 235Cb Design Considerations for Wire Slap and Sag to Lower Conductors
4. Corps of Engineers Easement Requirements
 - a. Vertical Clearance Requirements
 - b. Additional Clearance Requirements for Areas Designated for Rigging or Launching Sail Boats
5. Determining Lake Crossing Clearances
 - a. High Water
 - b. Sag and Tension for Long Crossings
 - c. Worst Case Sag
6. Additional Consideration
 - a. Transmission Adders
 - b. Marker Balls
7. Example problems

Affected Entity: Comanche Electric Cooperative

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AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

Alan Lesley
Signature

Alan Lesley
Printed Name

General Manager
Job Title

Comanche Electric Cooperative Association
Name of Affected Entity

Sworn and subscribed before me this 24 day of April, 2020
Month Year

Shelley Thedford
Notary Public in and For the State of Texas

My commission expires on Sept 25, 2023

